

Mineral Industry Surveys

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CRUSHED STONE AND SAND AND GRAVEL IN THE FIRST QUARTER OF 2000

An estimated 292 million metric tons of *crushed stone* were produced and shipped for consumption in the United States in the first quarter of 2000, an increase of 7% compared with the same period of 1999.

The estimated U.S. output of *construction sand and gravel* produced and shipped for consumption in the first quarter of 2000 was 193 million metric tons, an increase of 3.8% compared with the same period of 1999.

The above estimates are based on information reported to the U.S. Geological Survey quarterly sample survey by the *crushed stone* and *sand and gravel* producers. The increases in production of both *crushed stone* and *construction sand and gravel* are again mostly due to the continued high level of activity in commercial, public, and private construction work during the first quarter of 2000. It should be noted that in the first quarter of 2000 there was also an increase of 6.2% in portland cement consumption, compared with the same period of 1999.

The USGS quarterly survey on domestic production of *crushed stone* and *construction sand and gravel* has become a significant indicator of construction activity at the national as well as State level. This survey is a sample survey that generates production-for-consumption estimates by quarters for each State, except Alaska and Hawaii, and each geographic division, based on information reported voluntarily by a limited number of producing companies. Occasionally, the number of companies reporting in an area varies from quarter to quarter, or previously reported data by some companies are revised. As a result of such changes in the size or the composition of the statistical sample, the estimated quantities for prior quarters are recalculated. The latest release of the Quarterly Mineral Industry Surveys contains the most recent estimated totals and percentage changes and supersedes previously published similar information.

The production-for-consumption estimates for *crushed stone* and *sand and gravel* are generated independently for each State and geographic division, which are treated as separate statistical sample areas. Therefore, some differences may exist between the total for a division and the sum of State totals that are part of the

same geographic division.

The estimated U.S. *crushed stone* sold or used in the first quarter of 2000 increased in most geographic regions, especially the Midwest and South regions, and decreased in the West region. Major increases were recorded in the West North Central (10.3%), the East South Central (9.9%), and the New England (9.4%) divisions.

The leading geographic divisions for the total amount of *crushed stone* sold or used in the first quarter of 2000 were the South Atlantic with 82.1 million metric tons, or 28.1% of the U.S. total, followed by the West South Central with 48.1 million metric tons, or 16.5%, and the East North Central division with 38.5 million metric tons, or 13.2%.

The estimated U.S. *construction sand and gravel* sold or used in the first quarter of 2000 increased in all geographic divisions, except the Mountain division. Major increases were recorded in the West North Central (14.4%), the West South Central (14.2%), and the East North Central (10%) divisions.

The leading geographic divisions for the total amount of *construction sand and gravel* sold or used in the first quarter of 2000 were the Mountain with 40.7 million metric tons, or 21.1% of the U.S. total, followed by the Pacific with 40.5 million metric tons, or 21%, and the East North Central with 28.8 million metric tons, or 14.9%. The estimated totals by quarters for the geographic divisions do not include Alaska and Hawaii.

Despite the increases recorded at the national and regional level, compared with the first quarter of 1999, production-for-consumption of *crushed stone* in the first quarter of 2000 declined in 9 of the 40 estimated States, with the largest decreases occurring in Washington (-20.3%), Oklahoma (-11.7%), Wyoming (-9%), New Hampshire (-8.1%), and Maine (-5.8%). The five leading States in the production-for-consumption of *crushed stone* in the first quarter of 2000 were Texas, Florida, Georgia, Missouri, and North Carolina. Their combined total production-for-consumption represented 35.5% of the U.S. total.

Production-for-consumption of *construction sand and gravel* declined in 16 of the 44 estimated States, with major decreases

occurring in Utah (-46.6%), Vermont (-23.9%), Maine (-13%), Oregon (-13%), South Carolina (-11.8%), and Virginia (-11.8%). The five leading States in the production-for-consumption of *sand and gravel* in the first quarter of 2000 were California, Texas, Arizona, Ohio, and Colorado. Their combined total production-for-consumption represented 41.8% of the U.S. total.

A total of 352 companies representing *crushed stone* and *construction sand and gravel* producers reported production-for-consumption information to the first quarter sample survey. The large participation of the producing companies in this survey is reflected by the high percentage coverage obtained for most

geographic divisions and States. The percentage coverage indicates how much of the total estimated production-for-consumption for a State or a geographic division was actually reported by companies participating in this survey and was used to generate the estimated totals for that particular area.

The percent changes between the estimated production-for-consumption for the current quarter and the same quarter of the prior year included in this report are important indicators of the production/consumption trends occurring in a particular area of the country.

TABLE 1
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION 1/

(Thousand metric tons and thousand dollars)

Region/Division	1999					2000				
	Quantity					Quantity 1st qtr.	Per- cent change 3/	Percent cover- age	Number of cos. 4/	Value total 2/
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.	Total 2/					
Northeast:										
New England	3,300	11,300	12,500	10,200	37,400	273,000	3,600	9.4	42	17
Middle Atlantic	21,300	49,900	56,200	43,300	171,000	999,000	22,700	6.5	57	34
Midwest:										
East North Central	35,300	82,300	91,700	80,400	290,000	1,360,000	38,500	9.1	67	44
West North Central	27,100	42,900	50,900	42,600	164,000	883,000	29,900	10.3	56	40
South:										
South Atlantic	77,400	98,100	98,600	93,300	367,000	2,200,000	82,100	6.1	83	50
East South Central	32,700	48,200	51,800	45,600	178,000	1,110,000	35,900	9.9	68	17
West South Central	44,200	46,600	48,700	44,900	184,000	791,000	48,100	9.0	61	28
West:										
Mountain	11,400	14,400	15,700	12,600	54,100	283,000	11,200	-1.5	50	23
Pacific 5/	20,400	26,500	27,900	26,700	102,000	611,000	20,200	-1.2	42	25
Total 2/	273,000	420,000	454,000	400,000	1,560,000 6/	8,610,000 6/	292,000	7.0	XX	XX

XX Not applicable.

1/ Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

2/ Data may not add to totals shown because of independent rounding, and differences between projected totals by States and by divisions.

3/ All percentage changes are calculated using unrounded totals.

4/ Number of companies reporting for the quarterly survey.

5/ Does not include Alaska and Hawaii.

6/ Includes Alaska, Hawaii, and "Other" totals; see Table 2, footnote 6.

TABLE 2
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE 1/

(Thousand metric tons and thousand dollars)

State	1999					2000				
	Quantity					Value total 2/	Quantity 1st qtr.	Per- cent change 3/	Percent cover- age	Number of cos. 4/
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.	Total 2/					
Alabama	11,600	13,600	14,800	13,000	53,000	426,000	13,100	13.0	70	12
Alaska 5/ 6/	--	--	--	--	1,790	10,800	--	--	--	--
Arizona 7/	--	--	--	--	8,200	46,700	--	--	--	--
Arkansas	7,100	9,100	9,900	8,900	34,900	181,000	7,700	9.0	54	10
California	10,300	14,200	15,600	14,900	55,000	353,000	10,700	3.9	53	14
Colorado	2,600	3,600	3,500	2,600	12,300	67,300	2,600	1.3	69	6
Connecticut	400	3,100	2,700	1,800	8,000	74,400	600	37.0	27	4
Delaware 5/	--	--	--	--	--	--	--	--	--	--
Florida 6/	21,200	21,500	21,200	21,900	85,800	409,000	21,400	1.0	70	11
Georgia 6/	18,000	21,000	21,600	18,900	79,500	483,000	19,400	8.0	95	7
Hawaii 5/	--	--	--	--	5,700	57,300	--	--	--	--
Idaho	900	1,000	1,600	1,300	4,800	21,600	900	1.9	29	3
Illinois 6/	10,300	21,600	24,800	23,200	80,000	422,000	11,600	12.8	66	12
Indiana 6/	8,800	17,400	20,000	16,000	62,200	292,000	9,500	8.1	73	13
Iowa	5,300	12,500	14,500	11,100	43,400	233,000	6,100	16.1	50	7
Kansas	4,700	5,200	5,800	5,500	21,300	115,000	4,700	--	67	10
Kentucky 6/	11,100	16,400	17,900	15,100	60,500	295,000	10,600	(4.0)	61	7
Louisiana 6/ 7/	--	--	--	--	--	--	--	--	--	--
Maine	600	1,300	1,400	900	4,200	24,100	500	(5.8)	54	4
Maryland 6/	3,400	5,800	6,000	6,100	21,300	126,000	4,000	18.7	113	9
Massachusetts	1,200	3,800	4,300	3,800	13,100	102,000	1,400	14.8	62	6
Michigan 6/	3,100	13,000	13,400	12,800	42,300	166,000	3,400	8.7	72	9
Minnesota 6/	700	3,500	4,900	3,500	12,500	67,500	800	24.8	65	5
Mississippi 6/ 7/	--	--	--	--	800	5,740	--	--	--	--
Missouri	14,500	17,900	21,800	19,700	74,000	395,000	16,300	12.0	49	16
Montana 7/	--	--	--	--	4,100	16,300	--	--	--	--
Nebraska	1,400	1,900	2,000	1,600	6,900	47,100	1,400	(1.2)	88	6
Nevada	1,100	1,900	2,200	1,500	6,700	37,000	1,100	0.3	36	5
New Hampshire 6/	300	1,100	1,300	1,200	3,900	26,300	300	(8.1)	63	4
New Jersey	3,600	7,000	7,000	6,800	24,400	169,000	3,600	(0.2)	55	7
New Mexico 6/	800	1,200	1,000	600	3,700	16,100	800	(4.4)	43	4
New York	3,700	14,400	18,600	11,600	48,300	293,000	4,300	14.7	53	9
North Carolina	14,500	19,500	19,300	18,000	71,400	505,000	15,000	3.5	91	11
North Dakota 5/ 6/	--	--	--	--	80	268	--	--	--	--
Ohio	10,000	21,400	22,400	19,300	73,000	349,000	10,700	7.0	67	12
Oklahoma	10,000	10,200	10,000	9,200	39,400	160,000	8,800	(11.7)	71	11
Oregon	3,600	6,000	6,700	6,200	22,500	117,000	3,800	6.1	33	11
Pennsylvania	13,800	28,500	30,800	24,900	98,000	537,000	14,600	6.1	59	21
Rhode Island 5/	--	--	--	--	2,500	16,300	--	--	--	--
South Carolina	6,500	7,800	7,800	7,100	29,200	195,000	6,900	5.5	87	8
South Dakota	600	1,700	1,800	1,300	5,400	23,900	800	35.2	85	5
Tennessee	10,000	17,900	18,900	17,200	64,000	383,000	11,800	18.3	73	8
Texas	27,000	27,400	28,900	26,700	110,000	451,000	31,700	17.5	58	13
Utah	1,500	1,900	2,500	2,200	8,100	42,000	1,500	2.0	79	6
Vermont 7/	--	--	--	--	5,700	29,800	--	--	--	--
Virginia	12,100	18,800	18,000	18,000	67,000	407,000	13,000	7.2	70	12
Washington	7,600	6,400	5,000	5,000	24,000	141,000	6,000	(20.3)	25	5
West Virginia 6/	1,800	3,900	4,300	3,200	13,200	75,100	2,300	27.6	59	7
Wisconsin	2,900	8,700	11,400	9,300	32,200	135,000	3,100	7.0	49	8
Wyoming	1,600	1,500	1,600	1,400	6,200	36,000	1,500	(9.0)	84	3
Other	--	--	--	--	5,740	32,900	--	--	--	--
Total	XX	XX	XX	XX	1,560,000	8,610,000	XX	XX	XX	XX

XX Not applicable.

1/ Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

2/ Data may not add to totals shown because of independent rounding and differences between projected totals by States.

3/ All percentage changes are calculated using unrounded totals.

4/ Number of companies reporting for the quarterly survey.

5/ State not included in quarterly survey.

6/ To avoid disclosing proprietary data, certain State totals do not include all kinds of stone produced within the State; the portion not shown has been included with "Other."

7/ Owing to a low number of reporting companies, no production estimates by quarters were generated.

TABLE 3
SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION 1/

(Thousand metric tons and thousand dollars)

Region/Division	1999						2000			
	Quantity					Value	Quantity	Per- cent change 3/	Percent cover- age	Number of cos. 4/
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.	Total 2/	total 2/	1st qtr.			
Northeast:										
New England	5,400	12,300	14,500	10,900	43,000	216,000	5,600	4.5	23	22
Middle Atlantic	8,200	18,900	22,600	14,900	64,600	359,000	8,700	6.8	26	23
Midwest:										
East North Central	26,200	62,000	71,600	55,900	216,000	899,000	28,800	10.0	42	49
West North Central	10,500	32,000	40,400	26,500	109,000	414,000	12,100	14.4	24	33
South:										
South Atlantic	18,200	21,400	20,200	17,900	77,800	358,000	18,600	2.1	52	37
East South Central	9,100	13,500	15,400	10,200	48,200	223,000	9,500	3.8	37	18
West South Central	24,500	26,400	27,100	25,400	104,000	492,000	28,000	14.2	35	14
West:										
Mountain	45,000	50,900	54,600	47,500	198,000	841,000	40,700	-9.5	42	35
Pacific 5/	38,400	52,700	61,100	56,100	208,000	1,200,000	40,500	5.6	48	26
Total 2/	186,000	290,000	328,000	265,000	1,080,000 6/	5,000,000 6/	193,000	3.8	XX	XX

XX Not applicable.

1/ Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

2/ Data may not add to totals shown because of independent rounding, and differences between projected totals by States and by divisions.

3/ All percentage changes are calculated using unrounded totals.

4/ Number of companies reporting for the quarterly survey.

5/ Does not include Alaska and Hawaii.

6/ Includes Alaska and Hawaii.

TABLE 4
SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE 1/

(Thousand metric tons and thousand dollars)

State	1999					2000				
	Quantity					Value total 2/	Quantity 1st qtr.	Per- cent change 3/	Percent cover- age	Number of cos. 4/
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.	Total 2/					
Alabama	3,500	4,100	4,300	3,700	15,700	71,100	3,700	4.1	42	8
Alaska 5/	--	--	--	--	13,200	71,200	--	--	--	--
Arizona	13,700	14,000	13,500	12,800	54,000	264,000	12,900	(5.9)	70	7
Arkansas	2,500	2,900	3,300	2,900	11,500	53,900	2,500	(0.7)	50	3
California	27,900	37,300	43,400	41,400	150,000	906,000	29,500	5.9	54	15
Colorado	9,000	11,500	13,800	10,900	45,200	209,000	8,100	(9.1)	38	6
Connecticut	800	1,700	1,800	1,500	5,800	27,100	1,100	40.5	29	5
Delaware 6/	--	--	--	--	2,100	9,620	--	--	--	--
Florida	5,700	6,100	5,900	5,800	23,500	96,700	5,700	0.7	66	8
Georgia	2,000	2,400	2,200	1,900	8,500	36,000	2,100	4.7	34	6
Hawaii 5/	--	--	--	--	400	5,090	--	--	--	--
Idaho	1,700	3,700	5,000	3,100	13,500	43,400	1,700	(2.2)	26	4
Illinois	4,000	10,600	10,600	9,500	34,800	156,000	3,900	(2.1)	50	10
Indiana	5,100	7,900	7,700	5,700	26,500	114,000	5,400	4.8	58	8
Iowa	1,000	3,700	4,700	3,400	12,800	56,400	1,100	10.8	28	5
Kansas	1,300	2,100	2,800	2,200	8,400	25,000	1,500	15.9	27	3
Kentucky	1,400	2,500	2,500	2,300	8,700	30,100	1,400	(1.9)	21	3
Louisiana	2,500	2,900	2,600	2,500	10,500	50,400	2,400	(5.8)	64	4
Maine	600	2,400	3,500	2,400	8,900	39,800	500	(13.0)	19	4
Maryland	2,000	2,400	2,500	2,400	9,400	55,600	2,300	17.4	47	6
Massachusetts	2,300	4,200	3,900	3,700	14,100	80,200	2,400	3.1	18	6
Michigan	6,100	18,000	23,300	17,500	65,000	242,000	6,500	5.6	39	10
Minnesota	1,800	13,300	17,600	10,000	42,600	170,000	1,700	(3.0)	23	10
Mississippi	2,400	3,900	5,100	2,700	14,100	69,400	2,400	0.3	42	6
Missouri	2,000	3,100	3,900	3,100	12,100	51,200	2,300	15.0	47	5
Montana 6/	--	--	--	--	8,940	37,300	--	--	--	--
Nebraska	1,600	4,600	4,800	2,700	13,700	47,500	2,000	23.1	21	5
Nevada	5,600	5,800	5,900	6,800	24,100	106,000	6,300	13.7	33	6
New Hampshire	1,100	2,000	3,000	1,800	7,900	37,600	1,100	(3.6)	36	5
New Jersey	3,000	4,400	4,700	4,400	16,600	92,800	3,100	1.3	28	5
New Mexico	1,900	2,300	2,200	3,200	9,600	46,800	2,000	7.2	46	4
New York	3,300	8,500	11,600	5,900	29,300	150,000	3,400	3.0	21	11
North Carolina	2,100	2,800	2,600	2,400	10,000	53,900	2,900	42.7	39	5
North Dakota 5/	--	--	--	--	10,200	29,600	--	--	--	--
Ohio	6,600	14,800	18,600	14,400	54,400	268,000	8,200	25.0	42	15
Oklahoma	2,300	2,300	2,900	2,600	10,000	40,500	2,600	13.5	44	6
Oregon	3,100	5,000	5,700	3,900	17,700	96,500	2,700	(13.0)	25	3
Pennsylvania	1,800	5,900	6,700	4,400	18,700	116,000	2,100	19.5	32	10
Rhode Island 6/	--	--	--	--	1,110	9,080	--	--	--	--
South Carolina	2,800	2,900	2,800	1,600	10,100	38,300	2,500	(11.8)	45	4
South Dakota	900	2,800	3,600	2,200	9,500	34,100	1,300	42.7	16	5
Tennessee	1,600	3,000	3,500	1,600	9,700	52,500	1,800	12.8	34	5
Texas	17,500	18,300	18,300	17,500	71,600	347,000	21,900	25.0	27	9
Utah	8,800	10,300	12,700	7,200	39,000	120,000	4,700	(46.6)	30	4
Vermont	400	1,700	1,600	1,400	5,100	22,500	300	(23.9)	17	4
Virginia	3,000	3,600	2,800	2,700	12,100	57,300	2,700	(11.8)	57	8
Washington	7,300	10,700	12,400	10,100	40,500	193,000	7,900	9.3	37	9
West Virginia	200	700	700	400	2,100	10,400	200	(4.9)	93	5
Wisconsin	3,200	10,500	12,200	9,000	34,900	119,000	3,800	19.4	30	11
Wyoming	1,000	700	700	1,200	3,700	14,300	1,000	3.3	15	3
Total	XX	XX	XX	XX	1,080,000	5,000,000	XX	XX	XX	XX

XX Not applicable.

1/ Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

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3/ All percentage changes are calculated using unrounded totals.

4/ Number of companies reporting for the quarterly survey.

5/ State not included in quarterly survey.

6/ Owing to a low number of reporting companies, no production estimates by quarters were generated.